O221-111441

ADDENDUM NUMBER 1

UPGRADE MER DATA CENTER AT CJF
Site #240, Bldg. #76
949 North 9th Street
Milwaukee, WI 53202

Project Number: O221-11441

Date of Addendum: December 20, 2011

This Addendum to the Contract Documents is issued to modify, explain or correct the original documents, dated December 05, 2011, and is hereby made part of the Contract Documents. Acknowledge receipt of this Addendum in the space provided on the Bid Form, or bid may be rejected.

This Addendum consists of 8 pages (including 6 pages of attachments):

BIDDING AND CONTRACT DOCUMENTS

1. Prebid sign in sheet.

SPECIFICATIONS

1. Section 21 00 00 – Fire Protection System Outline Specification
   ADD section in its entirety.

DRAWINGS

1. Sheet A100 Demolition Key Notes
   ADD Note #9 as follows;
   #9. Construction dustproof containment partition. Provide sealed door opening as required for access into the data room. Data room & equipment operational throughout construction.

2. Sheet A100 Demolition Plan ADD Changes to plan as indicated on supplemental detail SDA-001 attached. Changes include dustproof partition location & contractor requirements to protect & maintain existing equipment during construction.

3. Sheet A200 Reflected Ceiling Plan
   ADD Changes to plan as indicated on supplemental detail SDA-002 attached. Changes include adding changes to the existing fire sprinkler system as needed to accommodate the new wall requirements.

4. Sheet E100 Basement Floorplan – Electrical
   REVISE existing equipment labeled EM/ESB to EM/MSB.

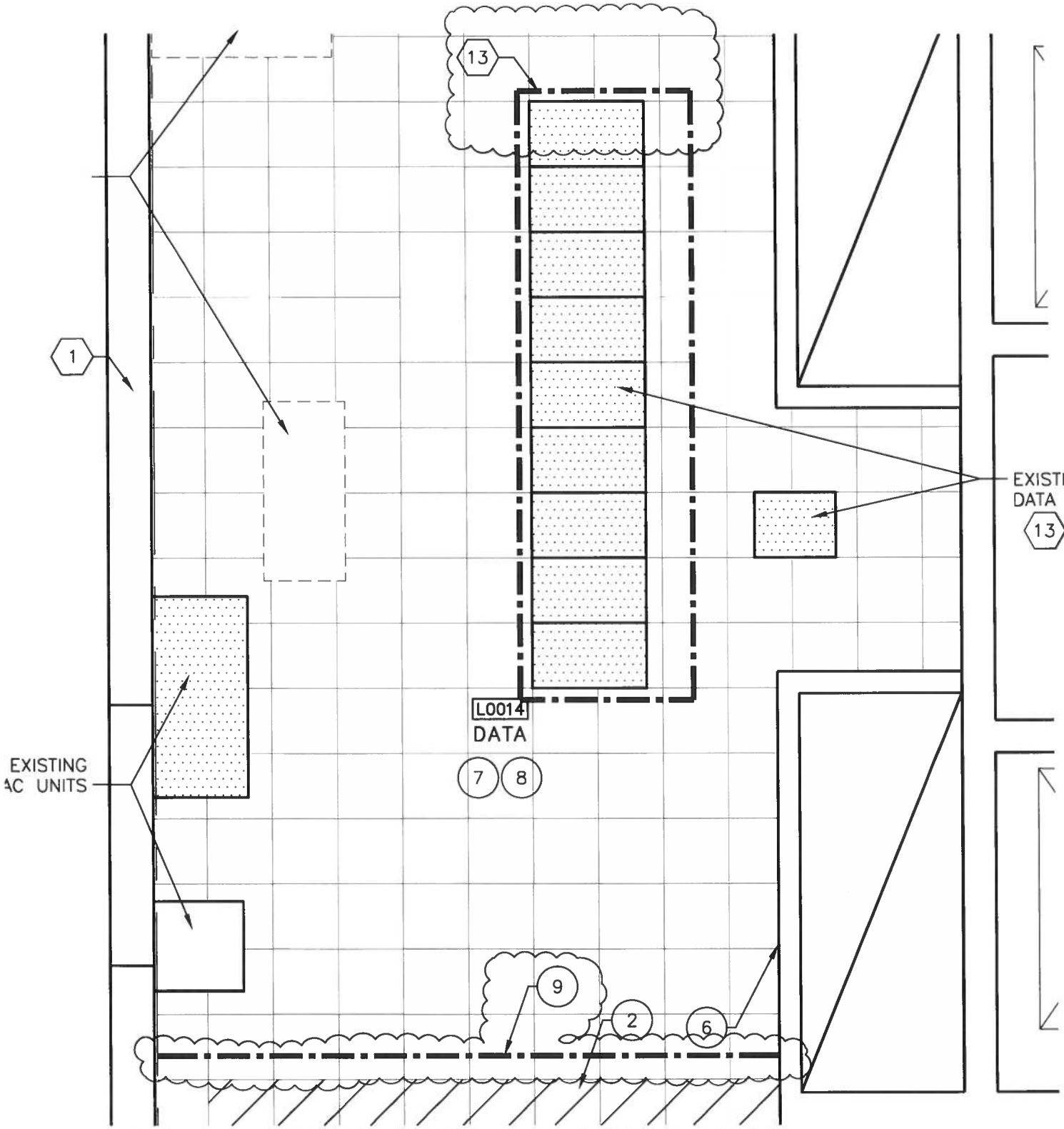
5. Sheet E200 Lower Level Floorplan – Electrical
   REVISE nomenclature of flush mounted panelboard on the demo plan from EP/GD to EP/GC.
   REVISE nomenclature of surface mounted panelboard on the demo plan from EP/GD to EP/GE.
   ADD sheet note 1 reference to existing multi-outlet surface mounted raceway near UPS/A on new plan.
   ADD sheet note 1 as follows:
   Modify existing surface mounted raceway as needed to accommodate construction of new wall.

6. E400 Electrical Details
   ADD detail note 3 reference to blank space on USS/BA shown in detail 1.
   ADD detail note 3 to detail 1 as follows:
   Use existing blank spacers from installation of new breaker in USS/BA replace incomplete blank spacers.

7. E700 One-Line Distribution Diagram
   DELETE 400AT/400AF text below new 600A, 3P breaker in USS/BA.
   REVISE sheet note 1 as follows:
   Existing USS/BA is Square D, QED style switchboard. Provide **600A,** "MH" frame breaker to feed ATS-6. See detail **1/E400** for more information.

8. E701 One-Line Distribution Diagram
   DELETE 'BUS BRACING =' text on EM/MDP.
   REVISE 'BREAKER I.C. =' text on EM/MDP to 'BREAKER I.C. = 25,000 RMS SYM. AMP @ 480V, 3Ø"
   REVISE boundary of alternate bid at CRAC-1. Boundary shall encircle the CRAC-1 equipment as well as the respective feeder.

End of Addendum No. 1



1 DEMOLITION – FLOOR PLAN

SCALE: 1/4" = 1'-0"

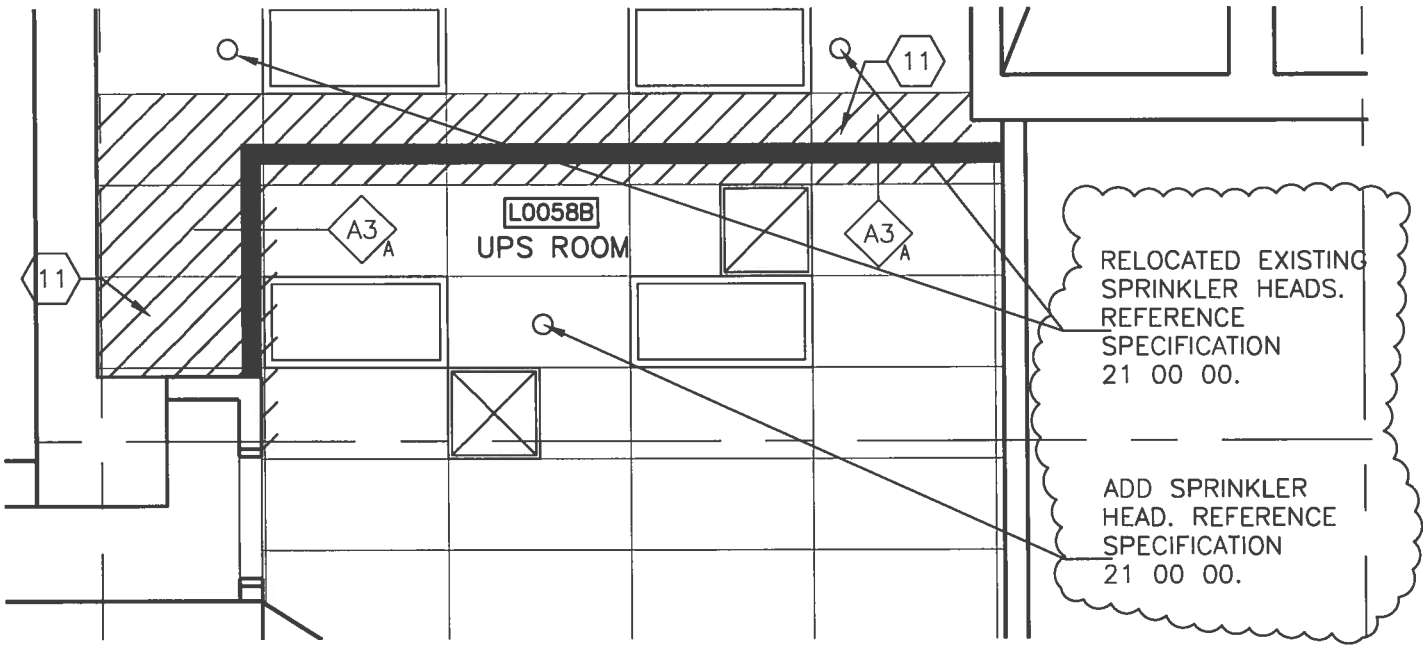
DATE:
DECEMBER 20, 2011

CONTINUUM PROJECT NUMBER:
111101

ADDENDUM DRAWING (A100)

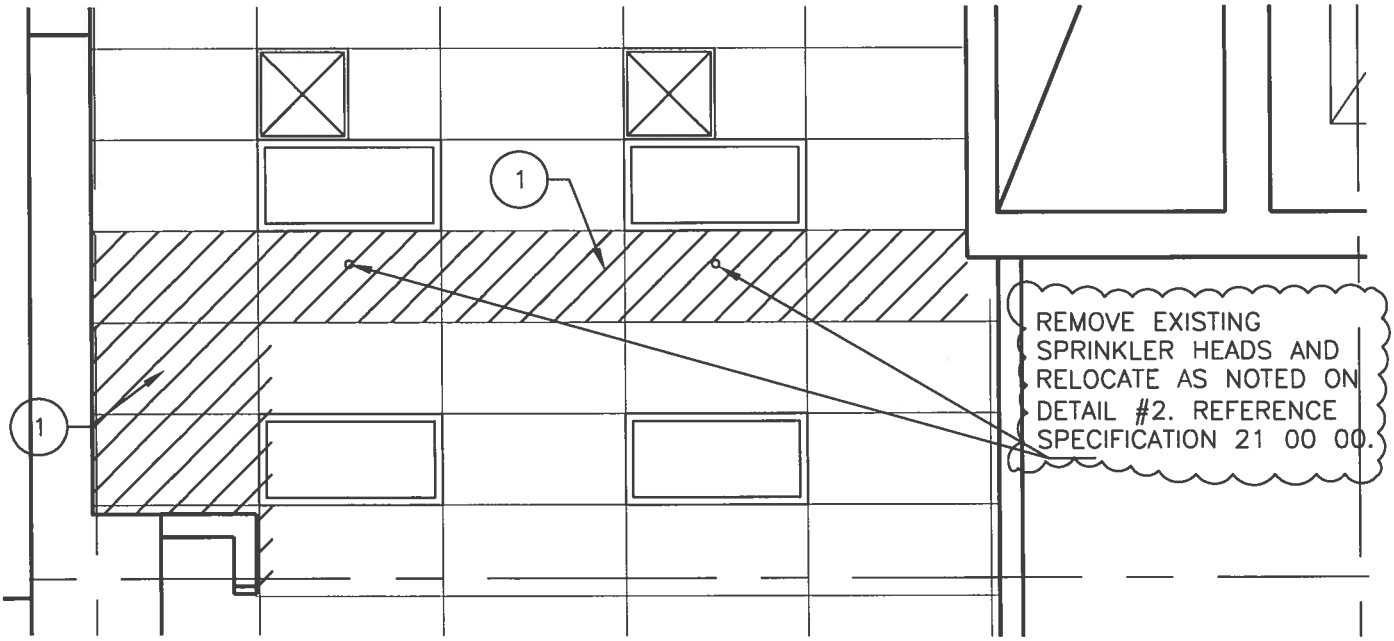
SDA-001

PROJECT NAME:
UPGRADE MER DATA CENTER AT
CRIMINAL JUSTICE FACILITY
PROJECT # 0221-11441



2 NEW WORK – REFLECTED CEILING PLAN

SCALE: 1/4" = 1'–0"



1 DEMOLITION – REFLECTED CEILING PLAN

SCALE: 1/4" = 1'–0"

DATE:
DECEMBER 20, 2011

CONTINUUM PROJECT NUMBER:
111101

ADDENDUM DRAWING (A200)

SDA-002

PROJECT NAME:
UPGRADE MER DATA CENTER AT CRIMINAL JUSTICE FACILITY
PROJECT # 0221–11441

MILWAUKEE COUNTY
Dept. of Transportation and Public Works
PREBID MEETING

PROJ. # 0221-11441

DATE: 12-19-2011 PLACE: CJF DATA ROOM IMPROVEMENTS

NAME	ORGANIZATION	PHONE	EMAIL
John Giorgi	J & H Heating Inc	262 2895581	johng@j&hheating.com
Henry Hurt	Hurt Electric Inc	262-252-05[illegible]	henry@hurtelectric.com
Marvin Britt	Dairyland Electric	262-783-1550	mbritt@dairylandelectric.com
Joe Bleaska	John Ranson Const.	414-438-41[illegible]	John@ranson construction.com ~~John Ranson [illegible]~~
Austin Heide	KPH Construction	414-647-1530	aheide@kphbuilds.com
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(RO - 7/98)

SECTION 21 00 00
FIRE PROTECTION SYSTEM OUTLINE SPECIFICATION

PART 1 - GENERAL

1.01 SCOPE

A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to work of this Section.

B. Fire Protection includes wet-pipe sprinkler protection of the server room and adjacent space. This section includes the following topics:
   1. This is a design build project. The contractor shall follow scope documents for type of systems, materials and equipment to use.
   2. The contractor shall be the Engineer of Record and prepare, seal and submit drawings and calculations to obtain approval and building permit from State, Insurance company, and local authority. Submit drawings and calculations to authorities. Drawings shall be prepared using AutoCAD, Version 2000 or newer; sheet size shall match size used for Architectural plans.
   3. The scope documents, along with local regulations and codes, shall be the basis for the Fire Protection design and construction.
   4. The contractor shall calculate, size and select systems as defined by the scope documents. This shall include coordination with other trade contractors.

1.02 GENERAL PROVISIONS

A. The fire standpipe and sprinkler systems shall be designed and installed in conformance with NFPA 13 Wisconsin Building Code and Fire Code for City of Milwaukee.

B. Fees, permits and inspections shall be obtained and paid for by the Fire Protection Contractor.

C. Include costs to cut and patch walls and ceiling affected by new work.

D. Installation shall be warranted for one year after date of acceptance.

E. Keep premises free from waste materials during construction .

F. Piping penetrating smoke or fire separations shall not violate the integrity of the separation. Where penetrations occur through fire rated walls or floors, "Link-Seal Pyro-Pac" shall be used, which is rated for 3 hour fire resistance by ASTM E-119-76. "Pyro-Pac" shall consist of two individual sealing units consisting of fire-resistant silicon links, steel pressure plates, and corrosion resistant fasteners.

G. Provide pipe hangers or strut connected to structural elements to support piping. Space hangers per NFPA 13.

1.03 UNIT PRICES

A. When submitting his cost for the project the contractor shall provide a list of man hour rates. These rate prices shall reflect the cost the contractor will either add or deduct from his base price, where the Owner decides to install or delete systems, piping, or equipment on an individual basis.

1.04 DEMOLITION

A. Where piping is removed and not reconnected with new work, ends of existing services shall be capped as if they were new work.

B. Identify piping and equipment for removal by demolition contractor. Pipe, equipment, and similar items demolished, abandoned, or deactivated shall be removed from the site except as specifically noted otherwise by the Owner. The condition of material and equipment that is to be reused shall be maintained to that existing before work began.

1.05 OCCUPANCY REQUIREMENTS

A. Contractor shall verify the planned occupancy and phasing of the building with the Architect and Owner prior to design and construction. Contractor pricing shall reflect these requirements to the extent that fire protection systems must be installed, located, segregated, operational, or otherwise planned to reflect phasing and partial occupancy requirements.

B. Coordinate disruptions for piping installation and system shut-down requirements with existing tenants and with the building Owner.

1.06 DESIGN CRITERIA

A. SPRINKLER SYSTEM
   1. Common Areas:
      a. Light Hazard coverage.
      b. Density - 0.10 gal/min/ft^2.
      c. Area - 1500 ft^2
      d. Hose Allowance - 250 gal/min
      e. Maximum Velocity - 20 feet/sec
      f. Duration of Water Supply - 60 minutes
   2. Mechanical and Storage Rooms:
      a. Ordinary Hazard, Group 1 coverage
      b. Density - 0.15 gal/min/ft^2.
      c. Area - 1500 ft^2
      d. Hose Allowance - 250 gal/min
      e. Maximum Velocity - 20 feet/sec
      f. Duration of Water Supply - 60 minutes

1.07 SYSTEM DESCRIPTION

A. Relocate two existing sprinklers to accommodate the installation of a new wall in the space, and add one additional sprinkler on the other side of the wall to maintain adequate coverage in the spaces. Refer to sheet A200 for new locations of the two (2) relocated sprinklers, and the location of one (1) new sprinkler.

PART 2 - PRODUCTS

2.01 GENERAL

A. Items shall be UL listed or FM approved for the intended usage.

2.02 PIPE AND FITTINGS

A. Carbon steel pipe, black, thickness per NFPA 13, conforming to ASTM A53, A135, A795. Malleable iron fittings, screwed or mechanical coupling joints.

2.03 SPRINKLERS

A. MANUFACTURERS
1. Central Sprinkler, Grinnel, Reliable, Star Sprinkler, or Viking.
2. Provide pendant heads, brass, glass bulb actuator, quick response type. Temperature ratings shall comply with Insurance company recommendations.

B. Finished Areas
1. Chrome plated bronze body quick response pendent sprinklers with glass bulb heat sensor. Semi-recessed sprinklers shall have adjustable recessed escutcheon. Coordinate sprinkler finishes with Architect.

C. RATINGS
1. higher temperature-rated sprinkler heads in areas near heat sources.

2.04 MISCELLANEOUS EQUIPMENT

A. Provide other equipment and accessories, for a sprinkler system installation in accordance with NFPA and FM requirements.

PART 3 - EXECUTION

3.01 INSTALLATION

A. Design and install sprinkler system in conformance with requirements of NFPA 13, Wisconsin Building Code, Insurance regulations, and Local Fire Marshal Regulations.

B. Provide pressure and flow tests as required by NFPA and insurance company. Inform Owner, Architect, and Local Fire Department one day prior to performing the test so that if anyone desires, they may witness the test.

3.02 GENERAL

A. Install piping parallel to building walls and ceilings and at heights which do not obstruct doorways or passageways. Where interferences develop in the field, offset or reroute piping to clear interferences. Coordinate locations of fire protection piping with piping, ductwork, conduit and equipment of other trades to allow clearances. Consult drawings for exact location of pipe spaces, ceiling heights, ceiling grid layout, light fixtures and grilles before installing piping.

B. Maintain piping in clean condition internally during construction.

C. Do not route piping above transformers, panelboards, or switchboards, including the required service space for this equipment, unless the piping is serving this equipment.

3.03 SPRINKLERS

A. Locate sprinklers maintaining clearances from obstructions, ceilings and walls. Install sprinklers level in locations not subject to spray pattern interference.

B. Sprinklers shall be centered in ceiling panels and tiles. A 1" tolerance for sprinkler placement is acceptable.

END OF SECTION